AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A lithium ion secondary cell comprising a positive electrode [[,]] and a negative electrode which are spirally wound with inserting a separator therebetween and a non-aqueous electrolytic solution wherein said negative electrode comprises a negative electrode active material containing a carbonaceous material having a spacing d_{002} of 0.3360 nm or less where the spacing d_{002} is a plane distance of (002) planes measured by a X-ray diffraction method, a crystal size Lc in the c-axis direction of at least 70 nm and a R value of from 0.01 to 0.3 where a R value is a ratio of I_{1350} to I_{1580} in which I_{1350} and I_{1580} are Raman intensities around 1350 cm⁻¹ and 1580 cm⁻¹ in a Raman spectrum measured by exciting a carbonaceous material with an argon laser having a wavelength of 514.5 nm, [[and]] wherein said non-aqueous electrolytic solution contains 0.5 to 5% by weight of vinylene carbonate or its derivative, and wherein said negative electrode comprises a mixture of a cellulose ether compound and a butadiene copolymer rubber in a weight ratio of 1:1 to 1:15 as a binder.
- 2. (Original) The lithium ion secondary cell according to claim 1, wherein said carbonaceous material is natural graphite.
- 3. (**Currently Amended**) The lithium ion secondary cell according to claim [[2]] 1, wherein said [[natural graphite]] <u>carbonaceous material</u> has a R value of 0.1 to 0.3.
- 4. (Original) The lithium ion secondary cell according to claim 1, wherein said non-aqueous electrolytic solution contains 1.2 to 4% by weight of vinylene carbonate or its derivative.

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5. (Cancelled)

6. (NEW) The lithium ion secondary cell according to claim 1, wherein said carbonaceous

material has a discharge capacity of at least 350 mAh/g.

7. (NEW) The lithium ion secondary cell according to claim 1, wherein said

carbonaceous material has a spacing d_{002} of 0.3356 nm or less.

8. (NEW) A lithium ion secondary cell comprising a positive electrode and a negative electrode

which are spirally wound with inserting a separator therebetween and a non-aqueous electrolytic

solution wherein said negative electrode comprises a negative electrode active material containing a

carbonaceous material having a spacing d₀₀₂ of 0.3360 nm or less where the spacing d₀₀₂ is a plane

distance of (002) planes measured by a X-ray diffraction method, a crystal size Lc in the c-axis direction

of at least 70 nm and a R value of from 0.01 to 0.3 where a R value is a ratio of I₁₃₅₀ to I₁₅₈₀ in which

I₁₃₅₀ and I₁₅₈₀ are Raman intensities around 1350 cm⁻¹ and 1580 cm⁻¹ in a Raman spectrum measured by

exciting a carbonaceous material with an argon laser having a wavelength of 514.5 nm, wherein said

non-aqueous electrolytic solution contains 0.5 to 5% by weight of vinylene carbonate or its derivative,

and wherein said negative electrode contains a mixture of a cellulose ether compound and a butadiene

copolymer rubber in an amount of 5% by weight or less.

9, (NEW) A box-shaped lithium ion secondary cell comprising a positive electrode and a

negative electrode which are spirally wound with inserting a separator therebetween and pressed in a

flat form and a non-aqueous electrolytic solution wherein said negative electrode comprises a negative

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electrode active material containing a carbonaceous material having a spacing d_{002} of 0.3360 nm or less where the spacing d_{002} is a plane distance of (002) planes measured by a X-ray diffraction method, a crystal size Lc in the c-axis direction of at least 70 nm and a R value of from 0.01 to 0.3 where a R value is a ratio of I_{1350} to I_{1580} in which I_{1350} and I_{1580} are Raman intensities around 1350 cm⁻¹ and 1580 cm⁻¹ in a Raman spectrum measured by exciting a carbonaceous material with an argon laser having a wavelength of 514.5 nm, and wherein said non-aqueous electrolytic solution contains 0.5 to 5% by weight of vinylene carbonate or its derivative.

10. (NEW) The box-shaped lithium ion secondary cell according to claim 9, wherein said negative electrode comprises a mixture of a cellulose ether compound and a butadiene copolymer rubber in a weight ratio of 1:1 to 1:15 as a binder.